

FIG. 1

APPLN. FILING DATE: FEBRUARY 21, 2002
TITLE: A PRECURSOR POLYPEPTIDE OF PHYTOSULFOKINE DERIVED FROM
ARABIDOPSIS THALIANA AND A GENE ENCODING SAID POLYPEPTIDE
INVENTOR(S): YOJI SAKAGAMI ET AL.
APPLICATION SERIAL NO: NEW APPLICATION SHEET 1 of 10

1 TTTAAGCATCTCTCCCTTCAGAAAAATATCACAAAATGGCAAAACGTCCTCCGCTTGT 60
M A N V S A L

61 CTCACCATAGCTCTCCCTTGCTCCACGCTAATGTGCACGCCCGAACGGCC 120
L T I A L L C S T L M C T A R P E P A

121 ATCTCCCATCTCATCACGACTGCTGCCGATCCATGGAGAAAGATAAGGA 180
I S I S I T T A A D P C N M E K K I E G

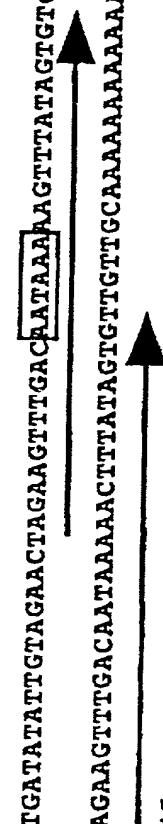
181 AAATTAGATGACATGCCATATGGTAGAAGAAAACTGGTGCAGACGACGAAGATGGCTTA 240
K L D D M H M V E E N C G A D D E D C L

241 ATGAGGAGGACTTGGTCGGCTCATACTGATTACATCTATACCCAGAAAGAAGAACCATCCT 300
M (R) (R) T L V A H T D Y I Y T O (K) (K) H P

301 TGATTTCACTTACTCATTCTAACAAACTTTGCTCAAGATTATGTAATTATGTCATC 360
*

361 CTTAATTAGTATTGTCACATACAAGATAAGTATGATTGATTATATATGT 420

421 ATTTGGATGATATTGTTAGAACTAGAAGTTGACAATAA~~AA~~AGTTTATAGTGTGTTG 480
481 TATGTTAACAGTTGACATAAAACCTTATAGTGTGTTGCAAAAAAA 540
541 AAAAA 545



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FIG. 2

		M	G	K	F	T	T	60
1	CTTCTCAAGCTCCATTATCTTCTCTATTTGCAAAATCAGTATGGCTAAGTTCACAAACC							
61	<u>I F I M A L L C S T L T Y A A R L T P</u>							
1121	ACGACAACCCACCGCTTTGTCCAGAACCTCGTCAAGGAATATGAGGGAGACGGTT	T	T	T	T	A	L	180
1181	GAAGAAGAAAGCTGCAACCGGAATTGGAGAAAGATACTGTTGATAAGACCGAACGCCCTCTT	E	E	S	C	N	G	180
2241	CITCACACCGATTACATTATCTCGAAATCACAGCCCTAAAGTTCTGTATTAAGGCAA	L	H	T	D	<u>Y I I T Q N H</u>	<u>K P *</u>	240
3301	<u>T A T T A C T</u> AAATTACATTATCAAACCTATACACTGTAGTACTTTCGTTTTCTGTCGTC							360
3361	TTTTTGTTTGTATTCGTTATAGTTAAAGTTCACTGTTATTGGTATTGGAAAG							420
4421	TTCTTACACCATCATATTGATAGTCTCTTAAACAAAAAA							479

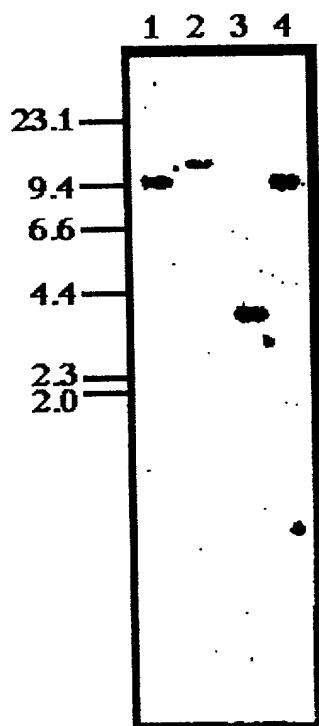
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FIG. 3



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FIG. 4

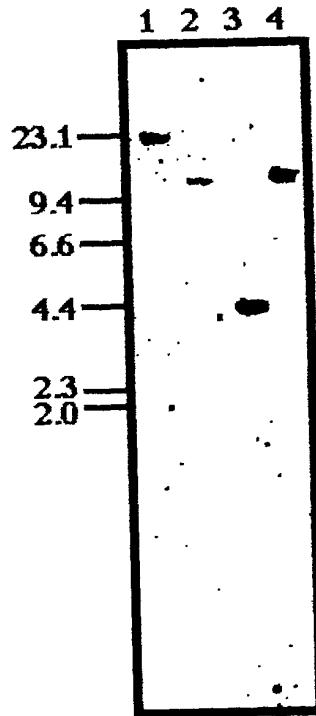


FIG. 5

OsPSK	1:	MVN-PGRTARALCLLCIALLLLGQDTHSRK	29
AtPSK2	1:	MANYSA LLTIAL-LLCSTLMCTARPEPAIS	29
	*	*	***
OsPSK	30:	L-LLQEKKSHGVGNGLTTTQEPSRENGGST	58
AtPSK2	30:	ISITTAADPCNMEKKIEGKLDDMMHVEENC	59
	*	*	*****
OsPSK	59:	GSNNNGQLQFDSAKWEEFH TDYIYTQDYKN	88
AtPSK2	60:	GADDEDCL-MRRT-LVA-HTD YIYTQKKH	86
	*	*	*****
OsPSK	89:P		89
AtPSK2	87:P		87
	*		

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FIG. 6

OsPSK 1: M V N P G R T A R A L C L L C L A L L L L G Q D T H S R K L 30

AtPSKL 1: — M G K F T - T I - F I - M A L L L C S T L T Y A A R L 24
* * * * * *

OsPSK 31: L L Q E K H S H G V G N G T T T Q E P S R E N G G S T G S 60

AtPSKL 25: T P T T T T A L S R E N S Y K E I E G D K V E E E S C N G I 54
* * * * *

OsPSK 61: N N N G Q L Q F D S A K V E E F H T D Y I Y T Q D V E N P 89

AtPSKL 55: G E E E C L - I - R - R S L L L H T D Y I Y T Q N H K - P 79
* * * * * *

FIG. 7

AtPSK2 1: M A N V S A L L T I A L L L C S T L M C T A R P E P A I S I 30

AtPSKL 1: M G K F T T I F I M A L L L C S T L T Y A A R L T P T T T 30
* * * * * *

AtPSK2 31: S I T T A A D P C N M E K K I E G K L D D M H M Y E E N C - 59

AtPSKL 31: A L S R - E N - S V - K E I E G - D K V E - E E S C N 52
* * * * * *

AtPSK2 60: G A D D E D C L H R R T L V A H T D Y I Y T Q K K K H P 87

AtPSKL 53: G I G E E E C L I R R S L L L H T D Y I Y T Q N H K - P 79
* * * * * * * * * *

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FIG. 8

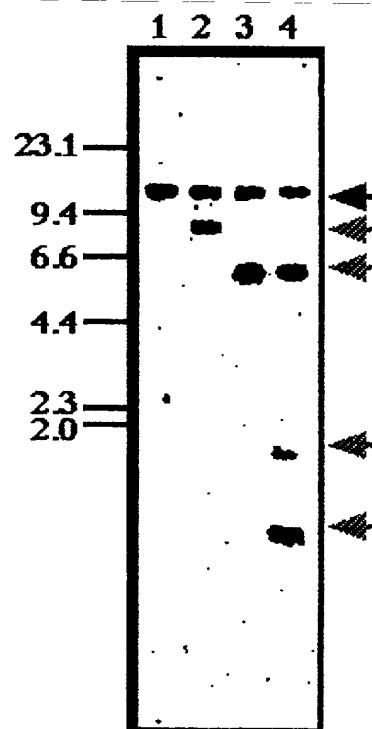
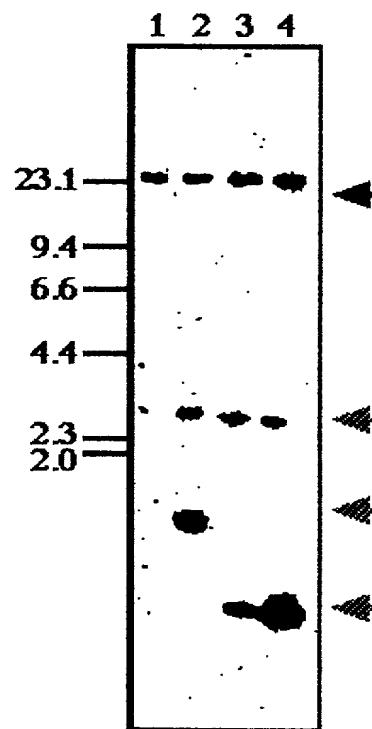


FIG. 9



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FIG. 10

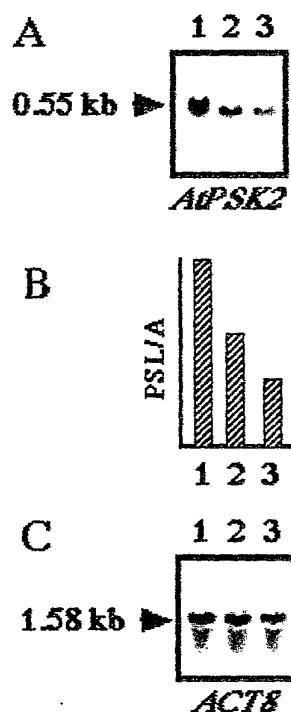
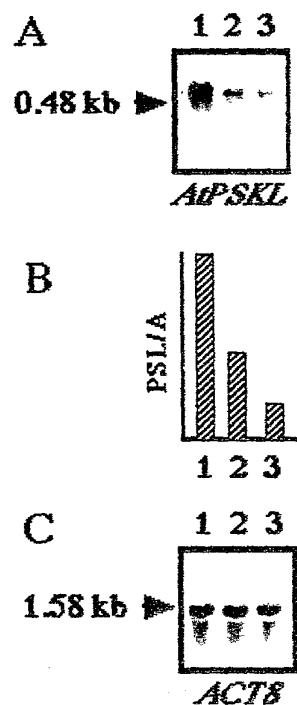


FIG. 11



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FIG. 12

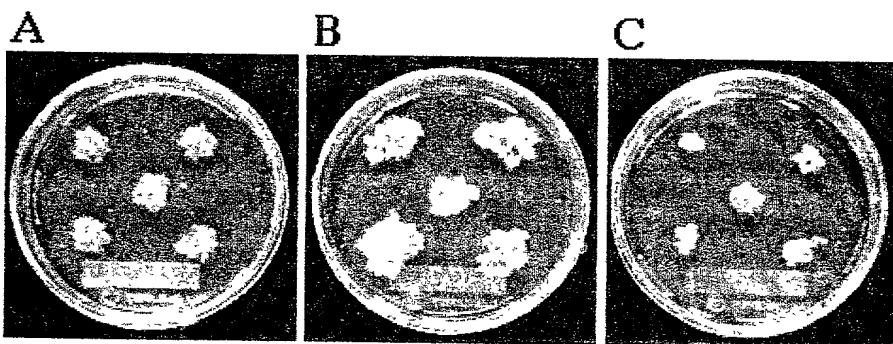
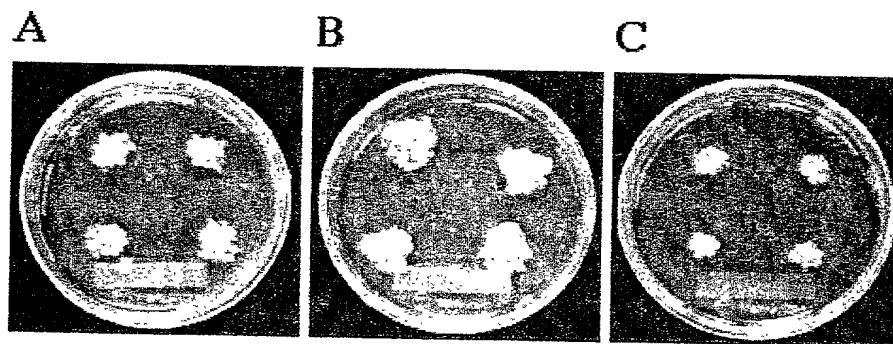


FIG. 13



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FIG. 14

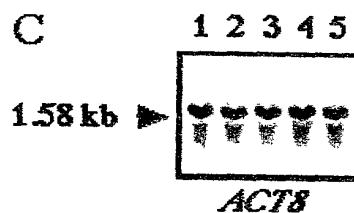
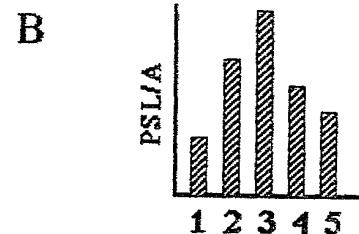
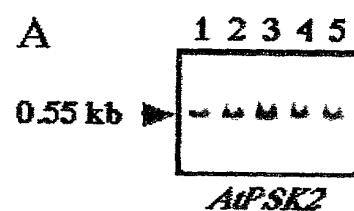
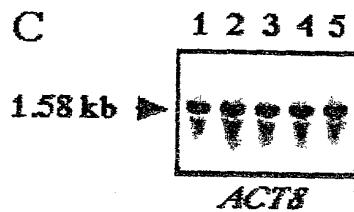
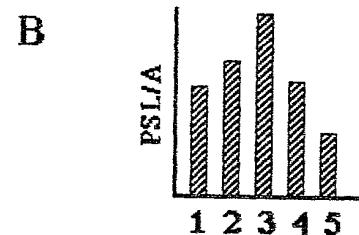
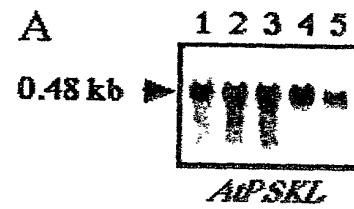


FIG. 15



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FIG. 16

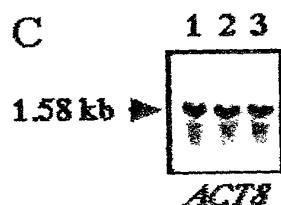
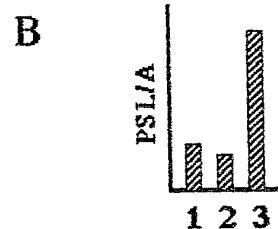
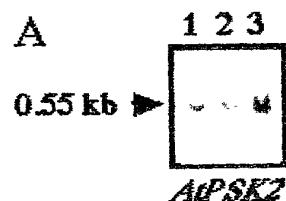


FIG. 17

